



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6  
HOUSTON BRANCH  
10625 FALLSTONE RD.  
HOUSTON, TEXAS 77099

May 1, 2012

**MEMORANDUM**

**SUBJECT:** Contract Laboratory Program Data Review  
**FROM:** *Raymond Flores*  
Raymond Flores, Alternate ESAT Regional Project Officer  
Environmental Services Branch (6MD-HL)  
**TO:** Bret Kendrick, Superfund Project Manager (6SF-TR)

**Site:** MANUFACTURING SPECIALTIES INC.  
**Case#:** 42356  
**SDG#:** MF5H91

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.



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# ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6  
10625 Fallstone Road  
Houston, TX 77099

Alion Science and Technology

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## MEMORANDUM

DATE: April 27, 2012  
TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA  
FROM: Sonya Meekins *MS* Data Reviewer, ESAT  
THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT *b63*  
SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	024
Task/Sub-Task:	2-12
ESAT Doc. No.:	A024-212-0153
TDF No.:	6-12-248A
ESAT File No.:	I-0495

Attached is the data review summary for Case # 42356  
SDG # MF5H91  
Site Manufacturing Specialties, Inc.

### COMMENTS:

#### I. LEVEL OF DATA REVIEW

Modified CADRE Review was performed for this data package.

#### II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The CCS found the data package contractually compliant.

#### III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

All results are technically acceptable.

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INORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	42356	SITE	Manufacturing Specialties, Inc.
LABORATORY	BONNER	NO. OF SAMPLES	3
CONTRACT#	EP-W-09-037	MATRIX	Water
SDG#	MF5H91	REVIEWER (IF NOT ESB)	ESAT
SOW#	ISM01.3	REVIEWER'S NAME	S. Meekins
SF#	303DD2A6DC	COMPLETION DATE	April 27, 2012

SAMPLE NO.	MF5H90				
	MF5H91				
	MF5H92				

DATA ASSESSMENT SUMMARY

CN

1. HOLDING TIMES	<u>0</u>
2. CALIBRATIONS	<u>0</u>
3. BLANKS	<u>0</u>
4. MATRIX SPIKES	<u>N/A</u>
5. DUPLICATE ANALYSIS	<u>N/A</u>
6. ICP QC	
7. LCS	
8. SAMPLE VERIFICATION	<u>0</u>
9. OTHER QC	<u>N/A</u>
10. OVERALL ASSESSMENT	<u>0</u>

O = Data had no problems.

M = Data qualified due to major or minor problems.

Z = Data unacceptable.

NA = Not applicable.

**ACTION ITEMS:**

**AREAS OF CONCERN:**

**COMMENTS/CLARIFICATIONS  
REGION 6 CLP QA REVIEW**

**CASE 42356 SDG MF5H91 SITE Manufacturing Specialties, Inc.  
LAB BONNER**

**COMMENTS:** This SDG consisted of three rinsate samples for cyanide analysis following SOW ISM01.3. Lab QC analyses are not required for field QC samples.

Modified CADRE review was performed for this package as requested by the Region. For this review option, the CCS and CADRE primarily determine the laboratory contractual compliance and the technical usability of the sample results, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the CADRE report. The CADRE narrative for the SDG is attached to this report as an addendum for additional information.

**DATA ASSESSMENT:** The QC problem affecting data usability is addressed below.

Because of laboratory blank readings, all sample results, which were below the CQRL, should be considered undetected and were flagged "U" at the CRQL on the DST.

**OVERALL ASSESSMENT:** All results are acceptable. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist. The DST included in this report is the final version.

## INORGANIC ACRONYMS

<b>CADRE</b>	Computer-Aided Data Review and Evaluation
<b>CCB</b>	Continuing Calibration Blank
<b>CCS</b>	Contract Compliance Screening
<b>CCV</b>	Continuing Calibration Verification
<b>CN</b>	Cyanide
<b>CRQL</b>	Contract Required Quantitation Limit
<b>CSF</b>	Complete SDG File
<b>DST</b>	Data Summary Table
<b>HG</b>	Mercury
<b>ICB</b>	Initial Calibration Blank
<b>ICP</b>	Inductively Coupled Plasma
<b>ICP-AES</b>	Inductively Coupled Plasma-Atomic Emission Spectroscopy
<b>ICP-MS</b>	Inductively Coupled Plasma-Mass Spectrometry
<b>ICS</b>	Interference Check Sample
<b>ICV</b>	Initial Calibration Verification
<b>IS</b>	Internal Standard
<b>LCS</b>	Laboratory Control Sample
<b>MDL</b>	Method Detection Limit
<b>NFG</b>	National Functional Guidelines
<b>PE</b>	Performance Evaluation
<b>%D</b>	Percent Difference
<b>%R</b>	Percent Recovery
<b>%RI</b>	Percent Relative Intensity
<b>%RSD</b>	Percent Relative Standard Deviation
<b>QA</b>	Quality Assurance
<b>QC</b>	Quality Control
<b>QL</b>	Quantitation Limit
<b>RPD</b>	Relative Percent Difference
<b>RSCC</b>	Regional Sample Control Center
<b>SDG</b>	Sample Delivery Group
<b>SMO</b>	Sample Management Office
<b>SOW</b>	Statement of Work
<b>SQL</b>	Sample Quantitation Limit
<b>TAL</b>	Target Analyte List

## HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE: Case Number  
SDG: SDG Number  
EPASAMP: EPA Sample Number  
LABID: Laboratory File/Sample ID  
MATRIX: Sample Matrix  
QCCOD: Sample QC Code  
SMPQUAL: Sample Qualifier  
ANDATE: Sample Analysis Date  
ANTIME: Sample Analysis Time  
CASNUM: Compound CAS Number  
ANALYTE: Compound Name  
CONC: Compound Concentration  
VALDQAL: Region 6 Inorganic Data Validation Qualifier (see  
Inorganic Data Qualifier Definitions on the next page)  
UNITS: Concentration Units  
ADJCRQL: Adjusted Contract Required Quantitation Limit Value  
SMPDATE: Sampling Date  
PRPDATE: Sample Preparation Date  
LRDATE: Laboratory Receipt Date  
LEVEL: Sample Level  
PERSOLD: Sample Percent Solids  
SMPWTVL: Sample Weight (Soil Samples)/Initial Sample Volume (Water  
Samples)  
FINLVOL: Final Sample Volume  
METHOD: Method of Analysis  
STATLOC: Station Location

**Disclaimer:** ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

## INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

- U** Not detected at reported quantitation limit.
- L** Reported concentration is between the MDL and the CRQL.
- J** Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.
- R** Result is unusable.
- F** A possibility of a false negative exists.
- UC** Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.
- +** High biased. Actual concentration may be lower than the concentration reported.
- Low biased. Actual concentration may be higher than the concentration reported.
- W** The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

CASE	SDG	EPASAM	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALD	UNITS	ADJCI	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
42356	MF5H91	MF5H90	1203291-01	W	Field_Blank	03/27/2012	15:39:54	57125	Cyanide	10.0	U	ug/L	10.0	03/19/2012	03/27/2012	03/20/2012	Medium	0.0	50	50	AS	DECON-01
42356	MF5H91	MF5H91	1203291-02	W	Field_Blank	03/27/2012	15:41:18	57125	Cyanide	10.0	U	ug/L	10.0	03/20/2012	03/27/2012	03/21/2012	Medium	0.0	50	50	AS	DECON-02
42356	MF5H91	MF5H92	1203291-03	W	Field_Blank	03/27/2012	15:42:44	57125	Cyanide	10.0	U	ug/L	10.0	03/20/2012	03/27/2012	03/21/2012	Medium	0.0	50	50	AS	DECON-03

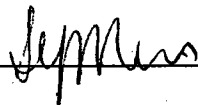


# INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. <u>42356</u>	SDG No. <u>MF5H91</u>	SDG Nos. To Follow	Mod. Ref. No.	Date Rec <u>04/10/12</u>
EPA Lab ID: <u>BONNER</u>			<b>ORIGINALS</b>	
Lab location: <u>Hattiesburg, MS</u>			<b>CUSTODY SEALS</b>	
Region: <u>6</u> Audit No.: <u>42356/MF5H91</u>			1. Present on package? <span style="float: right;">X</span>	
Resubmitted CSF? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			2. Intact upon receipt? <span style="float: right;">X</span>	
Box No(s): <u>1</u>			<b>FORM DC-2</b>	
COMMENTS:			3. Numbering scheme accurate? <span style="float: right;">X</span>	
			4. Are enclosed documents listed? <span style="float: right;">X</span>	
			5. Are listed documents enclosed? <span style="float: right;">X</span>	
			<b>FORM DC-1</b>	
			6. Present? <span style="float: right;">X</span>	
			7. Complete? <span style="float: right;">X</span>	
			8. Accurate? <span style="float: right;">X</span>	
			<b>TRAFFIC REPORT/CHAIN-OF-CUSTODY RECORD(s)</b>	
			9. Signed? <span style="float: right;">X</span>	
			10. Dated? <span style="float: right;">X</span>	
			<b>AIRBILLS/AIRBILL STICKER</b>	
			11. Present? <span style="float: right;">X</span>	
			12. Signed? <span style="float: right;">X</span>	
			13. Dated? <span style="float: right;">X</span>	
			<b>SAMPLE TAGS</b>	
			14. Does DC-1 list tags as being included? <span style="float: right;">X</span>	
			15. Present? <span style="float: right;">X</span>	
			<b>OTHER DOCUMENTS</b>	
16. Complete? <span style="float: right;">X</span>				
17. Legible? <span style="float: right;">X</span>				
18. Original? <span style="float: right;">X</span>				
18a. If "NO", does the copy indicate where original documents are located? <span style="float: right;">X</span>				

Over for additional comments.

Audited



Sonya Meekins/ESAT Data Reviewer

Date 04/24/12

Audited

Signature

Printed Name/Title

Date

DC-2



**AirbillNo: 800062688119**

### CHAIN OF CUSTODY RECORD

**Case #: 42356**

Cooler #: 1 of 1

MF51491  
No: 6-032012-132416-0003

Lab: Bonner Analytical Testing Company

**Lab Contact: Chris Bonner**

Lab Phone: 601-264-2854

[illegible]

**Special Instructions:**

5°C

Shipment for Case Complete?	Y
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**Samples Transferred From Chain of Custody #**

**Analysis Key:** CLP TMHg=CLP TAL Total Metals Mercury, CN=CLP Cyanide

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Stephen Ellis	3/20/12	P. Aick	3-21-12	1021						
		17:00									

COPY  
ME540

**COPY**  
ORIGINAL IN CSF: *ME 51490*  
Signature: *P. Aik*

# **ADDENDUM**

## **CADRE NARRATIVE**

**National Functional Guidelines Report #03**

Lab BONNER(Bonner Analytical Testing) SDG MF5H91 Case 42356 Contract EPW09037 Region 6 DDTID 147916 SOW ISM01.3

**Data Review Reports**

## Blanks

Blanks	CN
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	PBW01, MF5H90, MF5H91, MF5H92
	Cyanide PBW01, MF5H90, MF5H91, MF5H92

**National Functional Guidelines Report #03****Lab** BONNER(Bonner Analytical Testing) **SDG** MF5H91 **Case** 42356 **Contract** EPW09037 **Region** 6 **DDTID** 147916 **SOW** ISM01.3***Data Review Reports***

Detection Limit

Detection Limit	CN
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	PBW01, MF5H90, MF5H91, MF5H92
	Cyanide PBW01 , MF5H90 , MF5H91 , MF5H92